

Notice of Allowability

Application No.

09/930,800

Examiner

Etienne P LeRoux

Applicant(s)

YORKE, GORDON JAMES

Art Unit

2161

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE of 2/7/2005.
2. ☒ The allowed claim(s) is/are 1-18.
3. ☒ The drawings filed on 15 August 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 2/15/01
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


MOHAMMAD ALI
PRIMARY EXAMINER

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Instant invention drawn to the use of proxy objects to interface between an object-oriented environment and a relational database is allowable for including the following nonobvious improvement(s) over the prior art in conjunction with the remaining claim limitations:

receiving a first new peer value for the host object and receiving a second new peer value for a second peer object

wherein the bi-directional relationship is managed so that pairs of corresponding bi-directional pointers get updated together.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Edward J Grundler on May 26, 2005.

1. (Currently amended) A method for setting a new reference value for managing bi-directional relationships between objects in an object model of a relational database, the method comprising the steps of:

receiving bi-directional relationship information indicating interrelation between objects having one or more bi-directional relationships,

creating proxy objects based on the bi-directional relationship information for selected peer objects having bi-directional relationships, wherein the proxy objects have knowledge regarding a host object to which the proxy objects belong and one [of] or more peer objects with which the host relates through a bi-directional relationship, and wherein the host object is included as a first peer object of the selected peer objects;

receiving a first new peer value relating to a bi-directional relationship to be set in the host object,

determining, using one or more of the proxy objects, a second new peer value to be set for a second peer object which has the bi-directional relationship with the host object;

setting the first new peer value into the one or more proxy objects; and

setting the second new peer value in a proxy object created for the second peer object so that the second peer object has a bi-directional relationship with the host object without a developer of the object model having to ensure all associated references are maintained;

wherein the bi-directional relationship is managed so that pairs of corresponding bi-directional pointers get updated together.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Pat No 5,499,371 issued to Henninger et al discloses a method for mapping information between an object-oriented application and a structured database such as a relational database

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Etienne P LeRoux whose telephone number is (571) 272-4022. The examiner can normally be reached on 8:00-4:30.

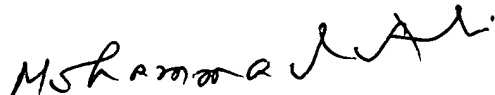
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on (571) 272-4023. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Contact Information

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Etienne LeRoux

5/25/2005


MOHAMMAD ALI
PRIMARY EXAMINER